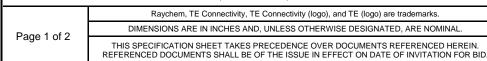
	SPECIFICATION CONTROL DRAWING	SCD	55A0116
Title	WIRE, RADIATION-CROSSLINKED, MODIFIED ETFE-INSULATED, LIGHTWEIGHT, GENERAL PURPOSE, 600 VOLT	Date 10-25-16	Revision J
	This specification sheet forms a part of the latest issue of Raychem	Specification 55A.	
	CONDUCTOR - NICKEL-COATED HIGH-STRENGTH COPPER ALLOY	INSULATION - RADIATIC MODIFIEI	· · · ·

TABLE I. CONSTRUCTION DETAILS									
	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (inch)		FINISHED WIRE				
PART NUMBER <u>1</u> /					MAXIMUM RESISTANCE AT 20°C	DIAMETER (inch)	MAXIMUM WEIGHT		
			MINIMUM	MAXIMUM	(ohms/1000 ft.)	(	(lbs/1000 ft.)		
55A0116-28-*	28	7 x 36	.014	.016	79.0	.027 ± .002	.91		
55A0116-26-*	26	19 x 38	.018	.020	49.4	.032 ± .002	1.4		
55A0116-24-*	24	19 x 36	.023	.025	30.1	.037 ± .002	2.0		
55A0116-22-*	22	19 x 34	.029	.031	18.6	.043 ± .002	2.9		
55A0116-20-*	20	19 x 32	.037	.039	11.4	.050 ± .002	4.4		
55A0116-18-*	18	19 x 30	.046	.051	7.1	.060 ± .002	6.6		
55A0116-16-*	16	19 x 29	.052	.058	5.5	.068 ± .002	8.5		

TABLE II. PERFORMANCE DETAILS							
	BEND TESTING						
PART NUMBER	MANDREL DIAMETER (inch) (± 3%)		WEIGHT (lb) (± 3%)				
<u>1</u> /	IMMERSION, LIFE CYCLE, AND ACCELERATED AGING	COLD BEND	IMMERSION, LIFE CYCLE, AND ACCELERATED AGING	COLD BEND			
55A0116-28-*	.250	.375	.125	.500			
55A0116-26-*	.375	.500	.125	.500			
55A0116-24-*	.375	.500	.250	1.00			
55A0116-22-*	.500	.750	.375	1.00			
55A0116-20-*	.500	.750	.500	1.00			
55A0116-18-*	.500	1.00	.500	1.00			
55A0116-16-*	.750	1.00	.750	1.00			

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. Tyco Electronics Corporation also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.

1/ COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681. OTHER CODES AND SUFFIXES MAY BE ADDED TO THE PART NUMBER, AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER.



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Raychem Wire & Cable 501 Oakside Avenue Redwood City, CA 94063-3800 Phone: 1-800-522-6752 Fax: 1-650-361-6297

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SCD

## WIRE RATINGS AND ADDITIONAL REQUIREMENTS

**TEMPERATURE RATING: 200°C** Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms) at sea level ACCELERATED AGING (CROSSLINKING PROOF): 300 ± 3°C for 7 hours BLOCKING: 230 ± 3°C for 24 hours COLOR: White preferred CONCENTRICITY: 70% (minimum) FLAMMABILITY: Procedure 1, 3 seconds (maximum), 3 inches (maximum); no flaming of facial tissue HUMIDITY RESISTANCE: Insulation Resistance, 5000 megohms for 1000 ft. (minimum) IDENTIFICATION, COLOR STRIPING, AND BAND DURABILITY: 125 cycles (250 strokes) (minimum), 500 g weight IMMERSION: Diameter increase 5% (maximum); no cracking, no dielectric breakdown INSULATION ELONGATION AND TENSILE STRENGTH: Elongation, 75% (minimum) Tensile Strength, 5000 lbf/in<sup>2</sup> (minimum) **INSULATION FLAWS:** Spark Test, 5.7 kV (rms) at 3 kHz Impulse Dielectric Test, 8.0 kV (peak) **INSULATION RESISTANCE:** 5000 megohms for 1000 ft. (minimum) INSULATION THICKNESS: 0.005 in. (minimum) LIFE CYCLE: 230 ± 3°C for 500 hours LOW TEMPERATURE-COLD BEND: -65 ± 3°C for 4 hours SHRINKAGE: 230 ± 3°C for 6 hours, 0.125 in. (maximum) in 12 inches SMOKE TEST: 250 ± 5°C, no visible smoke SURFACE RESISTANCE: 500 meghoms-in. (minimum), both readings THERMAL SHOCK RESISTANCE: 200 ± 3°C, 0.060 in. (maximum) VOLTAGE WITHSTAND (Post Environmental): 2500 volts (rms), 60 Hz WRAP TEST: 313 ± 3°C for 2 hours

1/ PART NUMBER:

The "\*" in the part numbers in Tables I and II shall be replaced by a color code designator. Example: AWG 22, white: 55A0116-22-9

AWG 22, white with a black stripe: 55A0116-22-90

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